

Title (en)

SYSTEM AND METHOD FOR DETERMINING VOLUME-RELATED PARAMETERS OF OCULAR AND OTHER BIOLOGICAL TISSUES

Title (de)

SYSTEM UND VERFAHREN ZUM BESTIMMEN VON VOLUMENBEZOGENEN PARAMETERN VON OKULAR- UND ANDEREN BIOLOGISCHEN GEWEBEN

Title (fr)

SYSTÈME ET PROCÉDÉ DE DÉTERMINATION DE PARAMÈTRES VOLUMÉTRIQUES DE TISSUS OCULAIRES ET D AUTRES TISSUS BIOLOGIQUES

Publication

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Application

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Priority

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Abstract (en)

[origin: WO2009155416A1] A system and method for determining volume-related parameters of a biological tissue, such as ocular tissue, include a light source for projecting light towards the biological tissue, a receiver for receiving light reflected from the biological tissue at two spectral wavelengths, and an image acquisition system in communication with the receiver for forming an image from the reflected light at each wavelength. A processor applies a mathematical model to the image which compares the absorption of light by the biological tissue at a selected image point at each of the two spectral wavelengths to determine the volume-related parameters, such as the relative thickness and material properties, of the biological tissue at that location.

IPC 8 full level

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Citation (search report)

- [I] US 6276798 B1 20010821 - GIL TAMIR [IL], et al
- [I] US 2007179381 A1 20070802 - JOHANSSON ANDERS [SE], et al
- See references of WO 2009155416A1

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